



## 8. DRAINAGE

### 8A. CATCH BASINS AND COVERS

- v.19 [8A5](#) Inlet and Manhole Covers  
[sheet a](#): Inlet Covers Type A, H, A-S, H-S and Z  
[sheet b](#): Inlet Covers Type B, B-A, C, MS, MS-A, and WM  
[sheet c](#): Inlet Covers Type F, HM, HM-S, S, T, V, HM-GJ, and HM-GJ-S  
[sheet d](#): Inlet Covers Type BW; Manhole Covers Type J, J-S, K, L and M
- v.2 [8A8](#) Catch Basins 3-FT, 4-FT, 5-FT and 6-FT Diameter
- v.2 [8A9](#) Catch Basins 2x3-FT and 2.5x3-FT

### 8B. MANHOLES

- v.3 [8B9](#) Manholes 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT and 10-FT Diameter
- v.2 [8B10](#) Manholes 3x3-FT, 4x4-FT, 5x5-FT, and 6x6-FT
- v.2 [8B11](#) Manholes Variable Tee and Special 4-FT Diameter

### 8C. INLETS

- v.2 [8C6](#) Inlets 3-FT and 4-FT Diameter
- v.2 [8C7](#) Inlets 2x2-FT, 2x2.5-FT, 2x3-FT, and 2.5x3-FT
- v.2 [8C8](#) Inlets Median 1 and 2 Grate
- v.2 [8C9](#) Inlets Median 3 and 4 Grate

### 8D. CURB AND GUTTER, AND SURFACE DRAINS

- v.22 [8D1](#) Concrete Curb and Gutter  
[sheet a](#): Concrete Curb and Gutter  
[sheet b](#): Concrete Curb Ties and Curb and Gutter Applications
- v.7 [8D2](#) Concrete Surface Drains Flume Type at Structures  
[a b c](#)
- v.8 [8D3](#) Concrete Surface Drains Drop Inlet Type at Structures  
[a b](#)
- v.6 [8D4](#) Concrete Surface Drains and Asphaltic Flumes
- v.20 [8D5](#) Curb Ramps  
[sheet a](#): Curb Ramps Types 1 and 1-A  
[sheet b](#): Curb Ramps Types 2 and 3  
[sheet c](#): Curb Ramps Type 4A and 4A1  
[sheet d](#): Curb Ramps Type 4B and 4B1  
[sheet e](#): Curb Ramps Type 5, 6, 7A, 7B & 8  
[sheet f](#): Curb Ramps Radial Detectable Warning Field Applications  
[sheet g](#): Curb Ramps Rectangular and Radial Detectable Warning Plates
- v.2 [8D13](#) Slotted Corrugated Metal Pipe Surface Drains
- v.2 [8D14](#) Slotted Vane Drain

v.5	<a href="#">8D15</a>	Edgedrains
	<a href="#">sheet a:</a>	<i>Edgedrain Outlet and Outfall Markers</i>
	<a href="#">sheet b:</a>	<i>Edgedrain and Base Aggregate Open Graded</i>
	<a href="#">sheet c:</a>	<i>Edgedrain and Base Aggregate Open Graded</i>
v.11	<a href="#">8D16</a>	Concrete Gutter, Curb and Gutter and Pavement Ties
v.6	<a href="#">8D17</a>	Manholes, Manhole and Inlet Covers
v.3	<a href="#">8D18</a>	Driveway and Sidewalk Ramps Types X and Y
v.3	<a href="#">8D19</a>	Driveway and Sidewalk Ramps Type Z
v.1	<a href="#">8D20</a>	Driveways with Curb & Gutter Returns
v.1	<a href="#">8D21</a>	Driveways without Curb & Gutter
v.1	<a href="#">8D22</a>	Driveways without Curb & Gutter Resurfacing Projects Rural

## 8E. EROSION CONTROL DEVICES

v.2	<a href="#">8E5</a>	Sodded Backslope Flume and Intercepting Embankment
v.3	<a href="#">8E8</a>	Typical Installations of Erosion Bales/Temporary Ditch Checks
v.6	<a href="#">8E9</a>	Silt Fence
v.2	<a href="#">8E10</a>	Inlet Protection Type A, B, C and D
v.2	<a href="#">8E11</a>	Turbidity Barrier
v.1	<a href="#">8E12</a>	Silt Screen
v.1	<a href="#">8E14</a>	Tracking Pad
v.1	<a href="#">8E15</a>	Culvert Pipe Checks

## 8F. PIPE AND CULVERT

v.11	<a href="#">8F1</a>	Apron Endwalls for Culvert Pipe
v.1	<a href="#">8F2</a>	Apron Endwalls for Pipe Arch and Elliptical Pipe
v.3	<a href="#">8F3</a>	Details for Pipe Cattle Pass, Concrete Endwalls and Steps
v.8	<a href="#">8F4</a>	Joint Ties for Concrete Pipe and Concrete Collar Detail
v.4	<a href="#">8F6</a>	Reinforced Concrete Apron Endwall for Pipe Underdrain
v.5	<a href="#">8F7</a>	Steel Apron Endwalls for Culvert Pipe and Pipe Arch Sloped Side Drains
v.2	<a href="#">8F8</a>	Steel Apron Endwalls for Culvert Pipe and Pipe Arch Sloped Cross Drains
v.2	<a href="#">8F10</a>	Concrete Masonry Endwalls for Culvert Pipe and Pipe Arch

# 9. INTERSECTION DESIGN

## 9A. GEOMETRIC LAYOUTS

v.13	<a href="#">9A1</a>	At-Grade Side Road Intersections
	<a href="#">sheet a:</a>	<i>At-Grade Side Road Intersection, Types B1, B2, C and D and Tee Intersection Bypass Lane</i>
	<a href="#">sheet b:</a>	<i>At-Grade Side Road Intersection, Types A1 and A2</i>

## 9B. CONDUIT

v.10	<a href="#">9B2</a>	Conduit
v.12	<a href="#">9B4</a>	Pull Box
v.2	<a href="#">9B16</a>	Pull Box Non-Conductive

**9C. BASES**

- v.9 [9C2](#) Concrete Bases Types 1, 2, 5 and 6
- v.4 [9C3](#) Transformer/Pedestal Bases
- v.4 [9C4](#) Concrete Base Bolt Repair
- v.10 [9C5](#) Concrete Control Cabinet Bases
- v.7 [9C6](#) Concrete Control Cabinet Base, Type 9, Special
- v.6 [9C8](#) Concrete Base, Type 7
- v.6 [9C9](#) Concrete Base, Type 8
- v.3 [9C10](#) Transformer Base for 15-Inch Bolt Circle
- v.10 [9C11](#) Concrete Base Type 10
- v.9 [9C12](#) Concrete Base Type 13  
[a b](#)
- v.2 [9C13](#) Concrete Base Type 10 and Type 13 Extension
- v.3 [9C14](#) Concrete Control Cabinet Base, Type L
- v.1 [9C15](#) Concrete Base Type 10 Special

**9D. CONTROL CABINETS**

- v.5 [9D1](#) Cabinet Service Installation (Meter Breaker Pedestal)
- v.3 [9D2](#) Signal Control Cabinet
- v.3 [9D3](#) Post Mounted Controller Service Installation
- v.3 [9D4](#) Lighting Control Cabinet 120/240 Volt
- v.2 [9D5](#) L30 Lighting Control Cabinet 240/480 Volt

**9E. POLE MOUNTINGS FOR TRAFFIC SIGNALS & LIGHTING UNITS**

- v.15 [9E1](#) Pole Mountings
  - [sheet a:](#) Pole Mountings for Traffic Signals Type 2
  - [sheet b:](#) Pole Mountings for Traffic Signals and Lighting Units Type 3 (Heavy Duty)
  - [sheet c:](#) Pole Mountings for Traffic Signals and Lighting Units Type 4
  - [sheet d:](#) Pole Mountings for Lighting Units Type 5 (30 feet)
  - [sheet e:](#) Pole Mountings for Lighting Units Type 6 (35 feet)
  - [sheet f:](#) Pole Mountings for Lighting Unit, Type 17 (40 feet)
  - [sheet g:](#) Hardware Details for Pole Mountings
- v.5 [9E2](#) Freeway Lighting Unit Pole Wiring
- v.6 [9E3](#) Non-Freeway Lighting Unit Pole Wiring
- v.6 [9E4](#) Walkway Lighting Unit and Concrete Base, Type 11
- v.6 [9E5](#) Traffic Signal Standard Ornamental Bracket Mountings (Typical) for 13 ft. or 15 ft.
- v.5 [9E6](#) Traffic Signal Standard Poly Bracket Mountings (Typical) 13 ft. or 15 ft.
- v.6 [9E7](#) Traffic Signal Standard Pedestrian and Flasher Typical Mounting Details
- v.9 [9E8](#) Type 9, Type 10, Type 9/10 Special, Type 12 and Type 13 Poles with Monotube Arms
  - [sheet a:](#) Type 9 Pole 15'-30' Monotube Arm
  - [sheet b:](#) Type 9 Special Pole 35' Monotube Arm
  - [sheet c:](#) Type 9 Special Pole 40' Monotube Arm
  - [sheet d:](#) Type 9 Special Pole 45' Monotube Arm
  - [sheet e:](#) Type 10 Pole 15'-30' Monotube Arm
  - [sheet f:](#) Type 10 Special Pole 35' Monotube Arm
  - [sheet g:](#) Type 10 Special Pole 40' Monotube Arm

- [sheet h:](#) Type 10 Special Pole 45' Monotube Arm
- [sheet i:](#) Type 12 Pole 35'-55' Monotube Arm
- [sheet j:](#) Type 13 Pole 35'-55' Monotube Arm
- [sheet k:](#) General Notes and Hardware Details for Type 9, Type 10, Type 9/10 Special, Type 12 and Type 13 Poles with Monotube Arms

v.1 [9E12](#) Over Height Poles and Monotube Arms

- [sheet a:](#) Over Height Type 9 Pole 15 - 30' Monotube Arm
- [sheet b:](#) Over Height Type 10 Pole 15' - 30' Monotube Arm
- [sheet c:](#) Over Height Type 12 Pole 35' - 55' Monotube Arm
- [sheet d:](#) Over Height Type 13 Pole 35' - 55' Monotube Arm
- [sheet e:](#) General Notes and Hardware Details for Over Height Type 9, 10, 12 and 13 Poles with Monotube Arms

## 9F. LOOP DETECTORS

- v.4 [9F1](#) Details for the Installation of Temporary Traffic Signal Loop Detector Wires in any Existing Pavement
- v.5 [9F4](#) Loop Detector Installed in New Concrete Pavement Round CSCP Pullbox
- v.5 [9F7](#) Loop Detector Installed in New Concrete Base with new Asphaltic Overlay Round CSCP Pullbox
- v.4 [9F8](#) Loop Detector Placed in Crushed Aggregate Base (New Asphaltic Pavement)
- v.5 [9F9](#) Loop Detector Placed in Crushed Aggregate Base (New Concrete Pavement)
- v.4 [9F10](#) Loop Detector Installed in Existing or New Asphaltic Pavement with New Asphaltic Overlay
- v.4 [9F11](#) Loop Detector Installed in Existing Concrete Pavement with New Asphaltic Overlay
- v.4 [9F12](#) Loop Detector Installed in Existing Concrete Pavement
- v.4 [9F13](#) Loop Detector Installed in Existing Asphaltic Pavement
- v.3 [9F14](#) Loop Detector Installed in New Concrete Pavement Round CSCP Pull Box 45 Degree Elbows to Pull Box
- v.4 [9F15](#) Loop Detector Installed in Base Course with Pull (Splice) Box Off Roadway (Options)
  - [sheet a:](#) Loop Detector Installed in Base Course with Pull (Splice) Box Off Roadway (Option 1)
  - [sheet b:](#) Loop Detector Installed in Base Course with Pull (Splice) Box Off Roadway (Option 2)
- v.2 [9F16](#) Two Loop Detectors Installed in New Concrete Pavement Round CSCP Pull Box 45 Degree Elbows to Pull Box

## 9G. TEMPORARY TRAFFIC SIGNALS

- v.4 [9G1](#) Span Wire Temporary Traffic Signal
  - [a](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#)
- v.5 [9G2](#) Bridge Temporary Traffic Signal Installation
  - [a](#) [b](#) [c](#)

## 9H. INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

- v.1 [9H1](#) Base ITS Controller Cabinet
- v.1 [9H3](#) 2 Circuit Meter Breaker Pedestal
- v.1 [9H4](#) 2 Circuit Electrical Service Meter Breaker Pedestal and Breaker Disconnect Box
- v.1 [9H5](#) Cabinet Breaker Disconnect Box Installation
- v.2 [9H6](#) Signal Assembly Advance Flasher Type 1
- v.1 [9H7](#) Signal Assembly Ramp Control Side mount
- v.3 [9H8](#) Communications Manhole Detail
- v.2 [9H9](#) Communication Vault Type 1
- v.1 [9H10](#) Communication Vault Type Round

- v.1 [9H11](#) Identification Plaque Requirements and Placement
- v.1 [9H14](#) Wireless Detection Sensor Mounting
- v.1 [9H15](#) Microwave Detector Assembly and Mounted Controller Installation
- v.1 [9H16](#) Wireless Antenna Installation

## 10. FREEWAY LIGHTING DESIGN

### 10A. GENERAL

- v.4 [10A1](#) Electrical Handhole Wiring
- v.3 [10A2](#) Identification Plaques Light Poles
- v.3 [10A3](#) Circuit Identification Plaques Sign Bridges
- v.3 [10A4](#) Identification Plaques Underdeck and High Mast Lighting
- v.3 [10A5](#) Electrical Details Ground Mount Light Poles Isolated Neutral Systems
- v.3 [10A6](#) Electrical Details Ground Mount Light Poles Grounded Neutral Systems
- v.3 [10A7](#) Electrical Details Ground Mount Light Poles Phase-to-Phase Systems
- v.3 [10A8](#) Electrical Details Structure Mount Light Poles Isolated Neutral Systems
- v.3 [10A9](#) Electrical Details Structure Mount Light Poles Grounded Neutral Systems
- v.3 [10A10](#) Electrical Details Structure Mount Light Poles Phase-to-Phase Systems
- v.3 [10A11](#) Electrical Details Median Mount Light Poles Isolated Neutral Systems
- v.3 [10A12](#) Electrical Details Median Mount Light Poles Grounded Neutral Systems
- v.3 [10A14](#) Electrical Details High Mast Lighting
  - [a](#) [b](#)
- v.4 [10A15](#) Electrical Details Underdeck Lighting
  - [a](#) [b](#)
- v.5 [10A17](#) Poles
  - [sheet a](#): Poles, Type 7 Aluminum - 35' - 10" Shaft
  - [sheet b](#): Poles, Type A Aluminum 47' - 6" Shaft
  - [sheet c](#): Poles, Type E Aluminum 49' - 0" Shaft
  - [sheet d](#): Poles, Type F Aluminum 49' - 0" Shaft
- v.5 [10A18](#) Luminaire Arms
  - [sheet a](#): Luminaire Arms, Single Member 6-inch Clamp
  - [sheet b](#): Luminaire Arms, Truss Type 6-inch Clamp

## 11. GEOMETRIC DESIGN

### 11A. MEDIANS

- v.6 [11A1](#) Maintenance Crossover for Freeways
- v.5 [11B1](#) Concrete Corrugated Median
- v.2 [11B2](#) Concrete Median Nose

## 12. STRUCTURES

### 12A. GENERAL

- v.10 [12A3](#) Name Plate (Structures)
- v.3 [12A4](#) Structure Identification Plaques, Ramp Gates, Sign Bridges, Overhead Sign Supports and Traffic Signals

## 13. PAVEMENT DESIGN

### 13A. GENERAL

- v.6 [13A3](#) Concrete Pavement Shoulders
- v.5 [13A5](#) Shoulder Rumble Strip, Milling
  - [a](#) [b](#)
- v.2 [13A7](#) Continuously Reinforced Concrete Pavement Repair and Replacement
- v.1 [13A8](#) Asphaltic Rumble Strips at Intersection
- v.1 [13A9](#) Concrete Rumble Strips at Intersection
- v.2 [13A10](#) 2-Lane Rural Shoulder Rumble Strip, Milling
  - [sheet a](#): 2-Lane Rural Shoulder Rumble Strip, Milling - Type 1
  - [sheet b](#): 2-Lane Rural Shoulder Rumble Strip, Milling - Type 2
  - [sheet c](#): 2-Lane Rural Shoulder Rumble Strip, Milling - Crossings, Intersections, Bridges, Driveways
  - [sheet d](#): 2-Lane Rural Shoulder Rumble Strip, Milling – Railroads, Passing, Climbing and Bypass Lanes
- v.3 [13A11](#) 2-Lane Rural Center Line Rumble Strip, Milling
  - [a](#) [b](#)

### 13B. APPROACH DETAILS

- v.10 [13B1](#) Pavement Details for Railroad Approach
- v.9 [13B2](#) Concrete Pavement Approach Slab
  - [sheet a](#): Concrete Pavement Approach Slab
  - [sheet b](#): Structural Approach Slab and Concrete Pavement Approach Slab

### 13C. JOINTS

- v.19 [13C1](#) Concrete Pavement Longitudinal Joints and Ties
- v.17 [13C4](#) Urban Non-Doweled Concrete Pavement
- v.2 [13C8](#) Concrete Pavement Partial Depth Repair
- v.16 [13C9](#) Concrete Pavement Repair and Replacement
  - [a](#) [b](#) [c](#)
- v.3 [13C10](#) Retrofit Dowel Bars
- v.13 [13C11](#) Rural Doweled Concrete Pavement
  - [a](#) [b](#)
- v.10 [13C13](#) Urban Doweled Concrete Pavement
- v.7 [13C14](#) Base Patching Concrete
  - [a](#) [b](#) [c](#)
- v.7 [13C15](#) Concrete Base
  - [a](#) [b](#)
- v.2 [13C16](#) Detail for Right Turn Lane/ Tee Intersection Bypass Lane on a Concrete Roadway
  - [a](#) [b](#)
- v.1 [13C17](#) Concrete Joint Detail for Ramp Termini
  - [sheet a](#): Concrete Joint Detail for Exit Ramp Termini
  - [sheet b](#): Concrete Joint Detail for Entrance Ramp Termini

- v.7 [13C18](#) Concrete Pavement Jointing
- [sheet a](#): Concrete Pavement Jointing
  - [sheet b](#): Concrete Placement Steel Reinforcement
  - [sheet c](#): Concrete Pavement Joint Types
  - [sheet d](#): Concrete Pavement Jointing at Utility Fixtures
  - [sheet e](#): Concrete Pavement Jointing and Steel Reinforcement in Roundabouts
  - [sheet f](#): Concrete Pavement Intersection Boxout for Integral Curb and Gutter
  - [sheet g](#): Concrete Pavement Jointing Acceleration/Deceleration Lane

- v.3 [13C19](#) HMA Longitudinal Joints

## 14. INCIDENTAL DESIGN

### 14A. PRESERVATION DETAILS

- v.3 [14A1](#) Tree Preservation Details
- v.1 [14A2](#) Tree Planting Detail

### 14B. VEHICLE BARRIER SYSTEMS

- v.16 [14B7](#) Concrete Barrier Temporary Precast
- [a](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#) [h](#) [i](#) [j](#) [k](#) [l](#) [m](#) [n](#)
- v.2 [14B8](#) Crash Cushion/Sand Barrel Array and Other Temporary Barrier Layout Details
- [sheet a](#): End Treatments and General Note
  - [sheet b](#): End Treatments and Transitions from Unanchored barrier to Anchored Barrier
  - [sheet c](#): Overlapping of Temporary Barrier and Temporary Barrier Downstream of Hazard
  - [sheet d](#): Connecting Temporary Barrier to Permanent Barrier and Overlapping Downstream Temporary Barrier with Permanent Barrier
  - [sheet e](#): Median Installation
- v.3 [14B11](#) Concrete Barrier (Double Faced)
- v.11 [14B15](#) Steel Plate Beam Guard, Class "A", Installation and Elements
- [a](#) [b](#) [c](#)
- v.4 [14B16](#) Anchorage for Steel Plate Beam Guard Type 2
- [a](#) [b](#)
- v.6 [14B18](#) Steel Plate Beam Guard, Class "A"
- [sheet a](#): Steel Plate Beam Guard, Class "A" (at Bridges, Obstacles and Sideroads/Driveways)
  - [sheet b](#): Steel Plate Beam Guard, Class "A" at Median Approach to Bridges at Median Piers and Sign Supports
- v.11 [14B20](#) Steel Thrie Beam Structure Approach
- [sheet a](#): Steel Thrie Beam Structure Approach
  - [sheet b](#): Steel Thrie Beam Structure Approach, Connection to Square End Parapets
  - [sheet c](#): Steel Thrie Beam Structure Approach, Connection to Vertical Faced Parapets
  - [sheet d](#): Steel Thrie Beam Structure Approach, Connection to Sloped End Parapets
  - [sheet e](#): Steel Thrie Beam Structure Approach, Connection to Bridge Railing Types "F" and "W"
  - [sheet f](#): Steel Thrie Beam Structure Approach, Connection to Bridge Railing Type "M"
  - [sheet g](#): Steel Thrie Beam Structure Approach, Connector Plate Detail
  - [sheet h](#): Steel Thrie Beam Structure Approach, Single Slope Attachment
- v.7 [14B22](#) Concrete Barrier, Single Faced (with Anchorage)
- [a](#) [b](#)



- v.9 [14B24](#) Steel Plate Beam Guard Energy Absorbing Terminal
  - [a](#) [b](#) [c](#)
- v.1 [14B25](#) Steel Plate Beam Guard, Class "A", Over Low Fill Culverts
- v.4 [14B26](#) Steel Thrie Beam Bullnose Terminal
  - [a](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#) [h](#)
- v.1 [14B27](#) Steel Plate Beam Guard Short Radius Terminal
  - [a](#) [b](#) [c](#)
- v.4 [14B28](#) Guardrail Mow Strip
  - [a](#) [b](#)
- v.1 [14B29](#) Safety Edge
- v.10 [14B32](#) Concrete Barrier Single Slope (CBSS)
  - [sheet a](#): Concrete Barrier Single Slope-Standard, Barrier on Bridge, Delineation
  - [sheet b](#): Concrete Barrier Single Slope-Steel Reinforcement
  - [sheet c](#): Concrete Barrier Single Slope Fixed Object Protection
  - [sheet d](#): Concrete Barrier Single Slope-Drainage and Joint Detail
  - [sheet e](#): Concrete Barrier Single Slope-Cold Joint and Height Transition
  - [sheet f](#): Concrete Barrier Single Slope-End Anchor and Median Barrier, Reinforcement
  - [sheet g](#): Concrete Barrier Single Slope and Retaining Wall
  - [sheet h](#): Concrete Barrier Single Slope-Retrofit and Repair
- v.2 [14B33](#) Concrete Barrier Single Slope Thrie Beam Anchorage
  - [sheet a](#): Concrete Barrier Single Slope 32-inch Thrie Beam Anchorage - Barrier Layout
  - [sheet b](#): Concrete Barrier Single Slope 32-inch Thrie Beam Anchorage - Steel Layout #1
  - [sheet c](#): Concrete Barrier Single Slope 32-inch Thrie Beam Anchorage - Steel Layout #2
  - [sheet d](#): Concrete Barrier Single Slope 36-inch Thrie Beam Anchorage - Barrier Layout
  - [sheet e](#): Concrete Barrier Single Slope 36-inch Thrie Beam Anchorage - Steel Layout #1
  - [sheet f](#): Concrete Barrier Single Slope 36-inch Thrie Beam Anchorage - Steel Layout #2
  - [sheet g](#): Concrete Barrier Single Slope 42-inch Thrie Beam Anchorage - Barrier Layout
  - [sheet h](#): Concrete Barrier Single Slope 42-inch Thrie Beam Anchorage - Steel Layout #1
- v.2 [14B34](#) Concrete Barrier Single Slope for Runs under 40-Feet Long
  - [sheet a](#): 32-inch, 36-inch and 42-inch Concrete Barrier Single Slope Class B
  - [sheet b](#): 56-Inch Concrete Barrier Single Slope Class B
  - [sheet c](#): Concrete Barrier Single Slope Type B
- v.2 [14B35](#) Single-Faced NJ Shape Concrete Barrier to Single Slope Concrete Barrier Transitions
  - [sheet a](#): 32-Inch Single-Faced NJ Shape to 32-Inch Single Slope Concrete Barrier Transition - Transition Layout
  - [sheet b](#): 32-Inch Single-Faced NJ Shape to 32-Inch Single Slope Concrete Barrier Transition - Steel Layout
  - [sheet c](#): 32-Inch Single-Faced NJ Shape to 36-Inch Single Slope Concrete Barrier Transition - Transition Layout
  - [sheet d](#): 32-Inch Single-Faced NJ Shape to 36-Inch Single Slope Concrete Barrier Transition - Steel Layout
  - [sheet e](#): 42-Inch Single-Faced NJ Shape to 42-Inch Single Slope Concrete Barrier Transition - Transition Layout
  - [sheet f](#): 42-Inch Single-Faced NJ Shape to 42-Inch Single Slope Concrete Barrier Transition - Steel Layout



v.2	<a href="#"><u>14B36</u></a>	F Shape Concrete Barrier to Single Slope Concrete Barrier Transitions
	<a href="#"><u>sheet a:</u></a>	32-Inch Single-Faced F Shape to 32-Inch Single Slope Concrete Barrier Transition - Transition Layout
	<a href="#"><u>sheet b:</u></a>	32-Inch Single-Faced F Shape to 32-Inch Single Slope Concrete Barrier Transition - Steel Layout
	<a href="#"><u>sheet c:</u></a>	32-Inch Single-Faced F Shape to 36-Inch Single Slope Concrete Barrier Transition - Transition Layout
	<a href="#"><u>sheet d:</u></a>	32-Inch Single-Faced F Shape to 36-Inch Single Slope Concrete Barrier Transition - Steel Layout
	<a href="#"><u>sheet e:</u></a>	42-Inch Single-Faced F Shape to 42-Inch Single Slope Concrete Barrier Transition - Transition Layout
	<a href="#"><u>sheet f:</u></a>	42-Inch Single-Faced F Shape to 42-Inch Single Slope Concrete Barrier Transition - Steel Layout
	<a href="#"><u>sheet g:</u></a>	51-Inch Single-Faced F Shape to 42-Inch Single Slope Concrete Barrier Transition - Transition Layout
	<a href="#"><u>sheet h:</u></a>	51-Inch Single-Faced F Shape to 42-Inch Single Slope Concrete Barrier Transition - Steel Layout
	<a href="#"><u>sheet i:</u></a>	51-Inch Single-Faced F Shape to 56-Inch Single Slope Concrete Barrier Transition - Transition Layout
	<a href="#"><u>sheet j:</u></a>	51-Inch Single-Faced F Shape to 56-Inch Single Slope Concrete Barrier Transition - Steel Layout
v.2	<a href="#"><u>14B37</u></a>	Double-Faced NJ Shape Concrete Barrier to Single Slope Concrete Barrier Transitions
	<a href="#"><u>sheet a:</u></a>	32-Inch Double-Faced NJ Shape to 36-Inch Single Slope Concrete Barrier Transition - Transition Layout
	<a href="#"><u>sheet b:</u></a>	32-Inch Double-Faced NJ Shape to 36-Inch Single Slope Concrete Barrier Transition - Steel Layout
v.2	<a href="#"><u>14B38</u></a>	Double-Faced F Shape Concrete Barrier to Single Slope Concrete Barrier Transitions
	<a href="#"><u>sheet a:</u></a>	32-Inch Double-Faced F Shape to 32-Inch Single Slope Transition - Transition Layout
	<a href="#"><u>sheet b:</u></a>	32-Inch Double-Faced F Shape to 32-Inch Single Slope Transition - Steel Layout
	<a href="#"><u>sheet c:</u></a>	32-Inch Double-Faced F Shape to 36-Inch Single Slope Transition - Transition Layout
	<a href="#"><u>sheet d:</u></a>	32-Inch Double-Faced F Shape to 36-Inch Single Slope Transition - Steel Layout
v.2	<a href="#"><u>14B39</u></a>	Height Transitions for Single Slope Concrete Barrier
	<a href="#"><u>sheet a:</u></a>	32-inch to 36-inch Single Slope Concrete Barrier Height Transition
	<a href="#"><u>sheet b:</u></a>	36-inch to 42-inch Single Slope Concrete Barrier Height Transition
	<a href="#"><u>sheet c:</u></a>	42-inch to 56-inch Single Slope Concrete Barrier Height Transition
v.2	<a href="#"><u>14B40</u></a>	Vertical Faced Concrete Barrier to Single Slope Concrete Barrier Transitions
	<a href="#"><u>sheet a:</u></a>	32-Inch Vertical to 32-Inch Single Slope Transition - Transition Layout
	<a href="#"><u>sheet b:</u></a>	32-Inch Vertical to 32-Inch Single Slope Transition - Steel Layout
	<a href="#"><u>sheet c:</u></a>	32-Inch Vertical to 36-Inch Single Slope Transition - Transition Layout
	<a href="#"><u>sheet d:</u></a>	32-Inch Vertical to 36-Inch Single Slope Transition - Steel Layout
	<a href="#"><u>sheet e:</u></a>	42-Inch Vertical to 42-Inch Single Slope Transition - Transition Layout
	<a href="#"><u>sheet f:</u></a>	42-Inch Vertical to 42-Inch Single Slope Transition - Steel Layout
	<a href="#"><u>sheet g:</u></a>	51-Inch Vertical to 42-Inch Single Slope Transition - Transition Layout
	<a href="#"><u>sheet h:</u></a>	51-Inch Vertical to 42-Inch Single Slope Transition - Steel Layout
	<a href="#"><u>sheet i:</u></a>	56-Inch Vertical to 56-Inch Single Slope Transition - Transition Layout
	<a href="#"><u>sheet j:</u></a>	56-Inch Vertical to 56-Inch Single Slope Transition - Steel Layout

v.3	<a href="#"><u>14B41</u></a>	Single Slope Roadside Retaining Wall	<p><a href="#"><u>sheet a:</u></a> <i>Single Slope Roadside Retaining Wall - Cross Section and Steel Details</i></p> <p><a href="#"><u>sheet b:</u></a> <i>Single Slope Roadside Retaining Wall - Placement and Drainage</i></p>
v.7	<a href="#"><u>14B42</u></a>	Midwest Guardrail System (MGS) Guardrail	<p><a href="#"><u>sheet a:</u></a> <i>Midwest Guardrail System (MGS) - Installation Cross Sections, Post and Block Details</i></p> <p><a href="#"><u>sheet b:</u></a> <i>MGS - Bolt, Post Spacing, Reflector Detail</i></p> <p><a href="#"><u>sheet c:</u></a> <i>MGS - Block-out Depth, Bolt Detail, Beam Lapping, Alternative Wood Block-out and Adjusting post spacing for Obstructions</i></p> <p><a href="#"><u>sheet d:</u></a> <i>MGS - Missing Post Details</i></p>
v.4	<a href="#"><u>14B43</u></a>	Midwest Guardrail System Long Span (MGS L)	<p><a href="#"><u>sheet a:</u></a> <i>Midwest Guardrail System Long Span (MGS L) Two-way Road Layout</i></p> <p><a href="#"><u>sheet b:</u></a> <i>Midwest Guardrail System Long Span (MGS L) One-way Road Layout</i></p> <p><a href="#"><u>sheet c:</u></a> <i>Midwest Guardrail System Long Span (MGS L) Cross Section and CRT Post Details</i></p>
v.4	<a href="#"><u>14B44</u></a>	Midwest Guardrail System (MGS) Terminal	<p><a href="#"><u>sheet a:</u></a> <i>Midwest Guardrail System (MGS) Energy Absorbing Terminal (EAT) - Layout</i></p> <p><a href="#"><u>sheet b:</u></a> <i>MGS EAT - Ground Strut, Anchor Cable Box, Bearing Plate</i></p> <p><a href="#"><u>sheet c:</u></a> <i>MGS EAT - Post Details, Block Detail, Marker Post Detail, Reflective Sheeting Detail</i></p>
v.5	<a href="#"><u>14B45</u></a>	Midwest Guardrail System (MGS) Thrie Beam Transition	<p><a href="#"><u>sheet a:</u></a> <i>Midwest Guardrail System (MGS) Thrie Beam Transition - Layout</i></p> <p><a href="#"><u>sheet b:</u></a> <i>MGS Thrie Beam Transition - Post Details, Thrie Beam Terminal Connector Details, Splice Detail, Cross Section</i></p> <p><a href="#"><u>sheet c:</u></a> <i>MGS Thrie Beam Transition - Thrie Beam Details, Post Details, Block Details</i></p> <p><a href="#"><u>sheet d:</u></a> <i>MGS Thrie Beam Transition - W and Thrie Beam Connection to Bridge Parapet with Square Ends</i></p> <p><a href="#"><u>sheet e:</u></a> <i>MGS Thrie Beam Transition - W and Thrie Beam Connection to Vertical Faced Parapets</i></p> <p><a href="#"><u>sheet f:</u></a> <i>MGS Thrie Beam Transition - W and Thrie Beam Connection to Bridge Parapets with Sloped Ends</i></p> <p><a href="#"><u>sheet g:</u></a> <i>MGS Thrie Beam Transition - Connection to W and F Bridge Parapet</i></p> <p><a href="#"><u>sheet h:</u></a> <i>MGS Thrie Beam Transition - Connection to M Bridge Parapet</i></p> <p><a href="#"><u>sheet i:</u></a> <i>MGS Thrie Beam Transition - Single Slope Connection Plate Details</i></p> <p><a href="#"><u>sheet j:</u></a> <i>MGS Thrie Beam Transition - Connection to Single Slope Barrier</i></p> <p><a href="#"><u>sheet k:</u></a> <i>MGS Thrie Beam Transition - Approach Connection to NY Bridge Parapets</i></p> <p><a href="#"><u>sheet l:</u></a> <i>MGS Thrie Beam Transition - Downstream Connection to NY Bridge Parapets</i></p>
v.3	<a href="#"><u>14B47</u></a>	Midwest Guardrail System (MGS) Type 2 Terminal	<p><a href="#"><u>sheet a:</u></a> <i>Midwest Guardrail System (MGS) Type 2 Terminal - Terminal Layout</i></p> <p><a href="#"><u>sheet b:</u></a> <i>MGS Type 2 Terminal - Details</i></p> <p><a href="#"><u>sheet c:</u></a> <i>MGS Type 2 Terminal – Post Components and Assemblies</i></p> <p><a href="#"><u>sheet d:</u></a> <i>MGS Type 2 Terminal – Ground Strut, Guardrail, Cable Assembly Components</i></p> <p><a href="#"><u>sheet e:</u></a> <i>MGS Type 2 Terminal – Arm Components and Assembly, Cable Bracket Components and Assembly</i></p> <p><a href="#"><u>sheet f:</u></a> <i>MGS Type 2 Terminal – Part List</i></p> <p><a href="#"><u>sheet g:</u></a> <i>MGS Type 2 Terminal – Part List</i></p>
v.1	<a href="#"><u>14B48</u></a>	Retrofit Cantilever Blunt End	<p><a href="#"><u>sheet a:</u></a> <i>Retrofit Cantilever Blunt End - Elevation, Section details, Installation and Bill of Materials</i></p> <p><a href="#"><u>sheet b:</u></a> <i>Retrofit Cantilever Blunt End - Components</i></p>

- v.1 [14B49](#) Retrofit Cantilever Sloped End  
     [sheet a:](#) *Retrofit Cantilever Sloped End - Elevation, Section Detail Installation and Bill of Materials*  
     [sheet b:](#) *Retrofit Cantilever Sloped End - Anchor Plate Assembly Parts and Component Details*
- v.1 [14B50](#) Thrie Beam Approach Retrofit Installation of Missing Post  
     [sheet a:](#) *Thrie Beam Approach Retrofit Installation of Missing Post - Missing Post Cross-Beam Layout*  
     [sheet b:](#) *Thrie Beam Approach Retrofit Installation of Missing Post - Missing Post Cross-Beam Components*  
     [sheet c:](#) *Thrie Beam Approach Retrofit Installation of Missing Post -Post Details, Bill of Materials*
- v.2 [14B51](#) Anchor Post Assembly Top Mounted  
     [sheet a:](#) *Anchor Post Assembly Top-Mounted - Layout and Mounting Details*  
     [sheet b:](#) *Anchor Post Assembly Top-Mounted - Assembly Details*  
     [sheet c:](#) *Anchor Post Assembly Top-Mounted - Fill, Joint Placement and Bill of Materials*
- v.3 [14B52](#) Cable Barrier Type 1  
     [sheet a:](#) *Cable Barrier Type 1 - Layout, Material List*  
     [sheet b:](#) *Cable Barrier Type 1 - Rock Excavation, Cross Section, Line Post Details*  
     [sheet c:](#) *Cable Barrier Type 1- Layout, Bill of Materials*
- v.2 [14B53](#) Short Radius MGS  
     [sheet a:](#) *Short Radius Beam Guard and Terminal (MGS) - Layout*  
     [sheet b:](#) *Short Radius Beam Guard and Terminal (MGS) - Short Radius Terminal Views, Detail A*  
     [sheet c:](#) *Short Radius Beam Guard and Terminal (MGS) - Terminal Detail B, Detail C and Detail D*  
     [sheet d:](#) *Short Radius Beam Guard and Terminal (MGS) - Terminal Anchor Bracket and Anchor Bracket Bearing Details*  
     [sheet e:](#) *Short Radius Beam Guard and Terminal (MGS) - End Section Buffer, Terminal Connector, Reflector Sheeting Parts*  
     [sheet f:](#) *Short Radius Beam Guard and Terminal (MGS) - Washer, Post, Tube, Plate and Terminal Post Details, Cable Assembly Detail*  
     [sheet g:](#) *Short Radius Beam Guard and Terminal (MGS) - Part List*  
     [sheet h:](#) *Short Radius Beam Guard and Terminal (MGS) - Part List*  
     [sheet i:](#) *Short Radius Beam Guard and Terminal (MGS) - Part List*

## 14C. RECREATIONAL FACILITIES

- v.3 [14C1](#) Timber Rail Guard Fence, Curb and Guard Post and Marker Post
- v.3 [14C2](#) Historical Marker Construction
- v.4 [14C3](#) Roadside Picnic Table
- v.6 [14C6](#) Wayside Well Shelter and Pump and Well Platform  
     [a b](#)
- v.4 [14C7](#) Picnic Tables, Single Pedestal  
     [a b](#)

## 15. RW, ACCESS CONTROL AND TRAFFIC CONTROL

### 15A. MARKER POSTS

- v.13 [15A1](#) Marker Post for Right-of-Way  
     [sheet a:](#) *Marker Post for Right-of-Way*  
     [sheet b:](#) *Flexible Marker Post for Right-of-Way*
- v.2 [15A3](#) Flexible Marker Post for Culvert End  
     [a b](#)

- v.7 [15A4](#) Delineator and Delineator Post  
     [sheet a:](#) *Flexible Delineator Post*  
     [sheet b:](#) *Barrier Wall Delineator with Reflective Sheeting*  
     [sheet c:](#) *Delineator Post with Reflective Sheeting*  
     [sheet d:](#) *Channelizing Devices, Permanent Flexible Tubular Marker Post*  
     [sheet e:](#) *Delineator with Reflective Sheeting*

- v.2 [15A7](#) Object Marker for Hazardous Culverts

## 15B. FENCING

- v.8 [15B1](#) Fence Woven Wire  
     [a b](#)
- v.15 [15B3](#) Chain Link Fence  
     [a b](#)
- v.1 [15B10](#) Wood Gate, Double Leaf  
     [a b c](#)
- v.1 [15B11](#) Wood Gate, Single Leaf  
     [a b](#)
- v.1 [15B12](#) Pipe Gate Details  
     [a b](#)

## 15C. MARKING AND SIGNING

- v.8 [15C2](#) Barricades and Signs for Mainline, Detour, On Ramp, Off Ramp Closures and Advanced Width Restriction  
     [sheet a:](#) *Barricades and Signs for Mainline Closures*  
     [sheet b:](#) *Barricades and Signs for Various Closures*  
     [sheet c:](#) *Detour Signing for Mainline Closures*  
     [sheet d:](#) *On-Ramp Lane Closure*  
     [sheet e:](#) *Traffic Control, Guidance Signing for Off-Ramp Lane Closure*  
     [sheet f:](#) *Advanced Width Restriction Signing*
- v.5 [15C3](#) Barricades and Signs for Sideroad Closures
- v.5 [15C4](#) Traffic Control, Advance Warning Signs 45 M.P.H. or Greater, Two Way Undivided Road Open to Traffic
- v.5 [15C5](#) Traffic Control, Advance Warning Signs 40 M.P.H. or Less, Two Way Undivided Road Open to Traffic
- v.10 [15C6](#) Signing and Marking for Two Lane Bridges
- v.15 [15C7](#) Pavement Marking Words, Symbols and Arrows  
     [sheet a:](#) *Pavement Marking Symbols*  
     [sheet b:](#) *Pavement Marking Words*  
     [sheet c:](#) *Pavement Marking Arrows*  
     [sheet d:](#) *Roundabout Marking Arrows*  
     [sheet e:](#) *Pavement Marking for Bike Lanes*
- v.22 [15C8](#) Pavement Marking, Mainline and Turn Lanes  
     [sheet a:](#) *Longitudinal Marking (Mainline)*  
     [sheet b:](#) *Pavement Marking (Turn Lanes)*  
     [sheet c:](#) *Pavement Marking (Turn Lanes)*  
     [sheet d:](#) *Pavement Marking (Turn Lanes)*
- v.12 [15C9](#) Signing and Pavement Marking Railroad Grade Crossing, RR Truck Stopping Lane  
     [sheet a:](#) *Signing and Pavement Marking Details for Railroad - Highway Grade Crossings*

[sheet b](#): *Railroad Truck Stopping Lane Pavement Markings*

v.9 [15C11](#) Channelizing Devices

[sheet a](#): *Channelizing Devices - Flexible Tubular Marker Post*

[sheet b](#): *Channelizing Devices - Drums, Cones, Barricades and Vertical Panel*

v.9 [15C12](#) Traffic Control for Lane Closure with Flagging Operation

[a](#) [b](#)

v.4 [15C14](#) Aerial Enforcement Bars Pavement Marking Details

v.6 [15C18](#) Median Island Marking

[sheet a](#): *Pavement Markings, Median Islands*

[sheet b](#): *Pavement Markings, Median Island Nose*

[sheet c](#): *Median Pavement Markings, Double Arrow Warning Sign Placement*

v.7 [15C19](#) Moving Pavement Marking Operations

[sheet a](#): *Moving Pavement Marking Operation - Two-Lane Two-Way Roadway*

[sheet b](#): *Moving Pavement Marking Operation – Multi-lane Undivided Roadway*

[sheet c](#): *Moving Pavement Marking Operation - Multi-Lane Divided Roadway*

v.2 [15C20](#) Yield Markings

v.10 [15C21](#) Signing and Marking for Two Lane to Four Lane Divided Transitions

v.4 [15C26](#) End-of-Roadway Signing

v.7 [15C29](#) Bicycle Lane Pavement Marking

[sheet a](#): *Bicycle Lane Marking*

[sheet b](#): *Bicycle Lane – Pavement Marking for Shared Lane 35 MPH or Less*

v.4 [15C31](#) Pavement Marking (Ramps and Gores)

[sheet a](#): *Pavement Marking Exit Ramp and Parallel Exit Ramp*

[sheet b](#): *Pavement Marking Major Split Freeway to Freeway*

[sheet c](#): *Pavement Marking Entrance Ramp and Parallel Entrance Ramp*

[sheet d](#): *Pavement Marking, Lane Drop and Lane Reduction*

v.4 [15C33](#) Stop Line and Crosswalk Pavement Marking

v.3 [15C34](#) Standard Application for Temporary Raised Pavement Markers, Type II

v.5 [15C35](#) Pavement Marking

[sheet a](#): *Pavement Marking (Intersections)*

[sheet b](#): *Pavement Marking (Climbing and Passing Lanes)*

[sheet c](#): *Pavement Marking (Climbing and Passing Lanes)*

v.1 [15C36](#) Parking Stall Marking

## 15D. TRAFFIC CONTROL

v.1 [15D4](#) Traffic Control, Ramp Construction Staging

v.5 [15D5](#) Traffic Control, Single Lane Crossover Entrance with Barrier

v.5 [15D6](#) Traffic Control, Two-Lane Two-Way Operation

v.5 [15D7](#) Traffic Control, Temporary Exit Ramp Crossover

v.8 [15D8](#) Traffic Control, Temporary Entrance Ramp Crossover

v.6 [15D9](#) Traffic Control, Single Lane Crossover Exit

v.5 [15D10](#) Traffic Control, Single Lane Crossover Exit with Barrier

v.8 [15D11](#) Traffic Control, Single Lane Crossover

v.10 [15D12](#) Traffic Control

[sheet a](#): *Traffic Control, Lane Closure*

	<a href="#"><u>sheet b</u></a> :	<i>Traffic Control, Lane Closure, Speed Reduction</i>
	<a href="#"><u>sheet c</u></a> :	<i>Traffic Control, Lane Closure, Dynamic Late Merge System</i>
	<a href="#"><u>sheet d</u></a> :	<i>Traffic Control, Lane Closure, Basic Traffic Queue Warning System</i>
	<a href="#"><u>sheet e</u></a> :	<i>Traffic Control, Lane Closure, Traffic Queue Warning System</i>
v.2	<a href="#"><u>15D13</u></a>	Temporary Emergency Pullouts
v.4	<a href="#"><u>15D14</u></a>	Traffic Control, Two Lane Closure on Freeway or Expressway, Short -Term (Less than 24 Hours)
v.6	<a href="#"><u>15D15</u></a>	Traffic Control, Ramp within Lane Closure
	<a href="#"><u>sheet a</u></a> :	<i>Traffic Control, Parallel Entrance Ramp within Right Lane Closure</i>
	<a href="#"><u>sheet b</u></a> :	<i>Traffic Control, Entrance Ramp within Left Lane Closure</i>
	<a href="#"><u>sheet c</u></a> :	<i>Traffic Control, Tapered Entrance Ramp within Right Lane Closure</i>
	<a href="#"><u>sheet d</u></a> :	<i>Traffic Control, Tapered Entrance Ramp within Left Lane Closure</i>
	<a href="#"><u>sheet e</u></a> :	<i>Traffic Control, Parallel Exit Ramp within Lane Closure</i>
v.5	<a href="#"><u>15D16</u></a>	Traffic Control, Exit Ramp Closure
v.6	<a href="#"><u>15D20</u></a>	Traffic Control, Single Lane Closure, Non-Freeway/Expressway
	<a href="#"><u>sheet a</u></a> :	<i>Traffic Control, Single Lane Closure, Divided Non-Freeway/Expressway</i>
	<a href="#"><u>sheet b</u></a> :	<i>Traffic Control, Single Right Lane Closure Undivided Non-Freeway/Expressway</i>
	<a href="#"><u>sheet c</u></a> :	<i>Traffic Control, Single Left Lane Closure Undivided Non-Freeway/Expressway</i>
v.7	<a href="#"><u>15D21</u></a>	Traffic Control, Intersection within Single Lane Closure
	<a href="#"><u>sheet a</u></a> :	<i>Traffic Control, Intersection within Single Right Lane Closure</i>
	<a href="#"><u>sheet b</u></a> :	<i>Traffic Control, Intersection within Single Left Lane Closure</i>
v.5	<a href="#"><u>15D22</u></a>	Traffic Control, Two Lane Closure, Non-Freeway/Expressway
v.7	<a href="#"><u>15D23</u></a>	Traffic Control, Intersection within Two Lane Closure
	<a href="#"><u>sheet a</u></a> :	<i>Traffic Control, Intersection within Two Right Lane Closure</i>
	<a href="#"><u>sheet b</u></a> :	<i>Traffic Control, Intersection within Two Left Lane Closure</i>
v.3	<a href="#"><u>15D27</u></a>	Traffic Control, Shoulder Closure on Divided Roadway, Speeds Greater than 40 M.P.H.
v.4	<a href="#"><u>15D28</u></a>	Traffic Control, Work on Shoulder or Parking Lane, Undivided Roadway
v.6	<a href="#"><u>15D29</u></a>	Traffic Control, Vehicle Entrance/Exit or Haul Road
v.7	<a href="#"><u>15D30</u></a>	Traffic Control, Pedestrian Accommodation
	<a href="#"><u>sheet a</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
	<a href="#"><u>sheet b</u></a> :	<i>Traffic Control, Temporary ADA Compliant Pedestrian Accommodation</i>
	<a href="#"><u>sheet c</u></a> :	<i>Traffic Control, Temporary Pedestrian Accommodation</i>
	<a href="#"><u>sheet d</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
	<a href="#"><u>sheet e</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
	<a href="#"><u>sheet f</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
	<a href="#"><u>sheet g</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
	<a href="#"><u>sheet h</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
	<a href="#"><u>sheet i</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
	<a href="#"><u>sheet j</u></a> :	<i>Traffic Control, Pedestrian Accommodation</i>
v.4	<a href="#"><u>15D31</u></a>	Traffic Control, Temporary Bypass Roadway
v.6	<a href="#"><u>15D32</u></a>	Traffic Control, One Lane Road Stop Condition
v.7	<a href="#"><u>15D33</u></a>	Traffic Control, One Lane Road with Temporary Signals
v.3	<a href="#"><u>15D35</u></a>	Ramp Gate
	<a href="#"><u>a</u></a> <a href="#"><u>b</u></a> <a href="#"><u>c</u></a>	
v.1	<a href="#"><u>15D36</u></a>	Barricade Rack
v.3	<a href="#"><u>15D37</u></a>	Traffic Control, Flagging Operation, Roundabout



v.2	<a href="#">15D39</a>	Traffic Control for Drop-off Signing
v.4	<a href="#">15D40</a>	Traffic Control, Lane Shift, Multi-Lane Divided or One-Way Road
	<a href="#">sheet a:</a>	<i>Traffic Control, Full Lane Shift, Non-Freeway/Expressway or Multilane Divided 45MPH or Under</i>
	<a href="#">sheet b:</a>	<i>Traffic Control, Full Lane Shift Multilane Divided 50MPH and Greater</i>
	<a href="#">sheet c:</a>	<i>Traffic Control, Partial Lane Shift, Non-Freeway/Expressway or Multilane Divided 45MPH or Under</i>
	<a href="#">sheet d:</a>	<i>Traffic Control, Partial Lane Shift Multilane Divided 50MPH and Greater</i>
v.2	<a href="#">15D41</a>	Traffic Control, Lane Shift, Multi-lane Divided
v.1	<a href="#">15D42</a>	Traffic Control, Two Lane Full Freeway Closure
v.2	<a href="#">15D43</a>	Traffic Control, Short Duration Mobile Operations
v.2	<a href="#">15D44</a>	Traffic Control, Signing on Roadways with Milled Surfaces
v.3	<a href="#">15D45</a>	Traffic Control, Signing on Roadways with Loose Gravel
v.1.	<a href="#">15D46</a>	Traffic Control, One-Way Signing
v.2.	<a href="#">15D47</a>	Traffic Control, Ingress/Egress
	<a href="#">sheet a:</a>	<i>Ingress/Egress with Barrier</i>
	<a href="#">sheet b:</a>	<i>Ingress/Egress without Barrier</i>
v.1	<a href="#">15D48</a>	Traffic Control, Lane Shift in Flagging Operation
v.1	<a href="#">15D49</a>	Traffic Control, System Ramp Closure
v.2.	<a href="#">15D50</a>	Traffic Control, Added Lane Closure
	<a href="#">sheet a:</a>	<i>Added Lane Closure without Lane Shift</i>
	<a href="#">sheet b:</a>	<i>Added Lane Closure with Lane Shift</i>
v.1	<a href="#">15D51</a>	Traffic Control, Mobile Operations on an Undivided Roadway

## 16. SURVEYING

### 16A. MONUMENTS

v.7	<a href="#">16A1</a>	Landmark Reference Monuments and Covers
-----	----------------------	---